



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR.  
GOVERNOR

DIVISION OF HIGHWAYS  
P.O. BOX 25201, RALEIGH, N.C. 27611-5201

GARLAND B. GARRETT JR.  
SECRETARY

February 11, 1997

MEMORANDUM TO: Whitmel H. Webb, III, P. E.  
Manager Program Development Branch

FROM: David Modlin, P. E.  
Feasibility Studies Unit Head

SUBJECT: Proposed Improvements to NC 345 in Dare County,  
Division 1

You asked that Design Services evaluate estimates provided by the Division Office relative to three proposed alternates for improving NC 345 in the proximity of "Dead Man's Curve". The three alternates and the respective cost estimates are as follows:

Alternate 1 - Widen the roadway by 2 feet on both sides, improve the superelevation and resurface the road through the area known as "Dead Man's Curve". The total distance is 1.5 miles (2.4 km).

Division Estimate	\$ 280,000
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Design Services Estimate	\$ 450,000
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Alternate 2 - Includes the above improvements to "Dead Man's Curve" as well as widening and resurfacing the remaining portion of NC 345 from US 64/264 to SR 1135. The total distance is 3.0 miles (4.8 km).

Division Estimate	\$ 420,000
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Design Services Estimate	\$ 750,000
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Alternate 3 - Straighten "Dead Man's Curve" by relocating approximately 4000 feet (0.8 mile, 1.2 km). The new location would cut through marsh and would impact approximately 5 acres of wetland. The wetland mitigation is estimated at 3:1 at \$ 50,000 per acre (included). The total distance is 2.9 miles (4.7 km).

Division Estimate	\$ 1,500,000
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Design Services Estimate	\$ 2,250,000
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